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OM protein - protein search, using sw model

Run on: February 14, 2001, 03:40:02 ; Search time 44.89 Seconds

(without alignments)
134.408 Million cell updates/sec

Title: US-09-481-990-2

Perfect score: 1753

Sequence: 1 MQLSLAGSSCVLVERHRSA.....QNEPFAVATGSACVDGPANH 336

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

arched: 174772 seqs, 17957048 residues

174772

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued_Patents_AA:*
2: /cgn2_6/prodata/2/1aa/5A.COMB.pep:*
3: /cgn2_6/prodata/2/1aa/6.COMB.pep:*
4: /cgn2_6/prodata/2/1aa/PCRTUS.COMB.pep:*
5: /cgn2_6/prodata/2/1aa/backfile1.pep:*

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1753	100.0	336	US-08-749-816-2	Sequence 2, Appli
2	239	13.6	618	US-08-332-312-2	Sequence 2, Appli
3	226.5	12.9	383	US-08-749-816-4	Sequence 4, Appli
4	220	12.5	336	US-08-332-312-4	Sequence 4, Appli
5	148	8.4	27	US-08-749-816-6	Sequence 6, Appli
6	145.5	8.3	347	US-08-749-816-3	Sequence 3, Appli
7	139	7.9	27	US-08-749-816-5	Sequence 3, Appli
8	95	5.4	539	US-08-464-340A-13	Sequence 13, Appli
9	94.5	5.4	363	US-08-148-209A-2	Sequence 2, Appli
10	94.5	5.4	363	US-08-148-209A-3	Sequence 3, Appli
11	94	5.4	494	US-08-464-340A-4	Sequence 4, Appli
12	94	5.4	494	PCT-US94-08449A-4	Sequence 4, Appli
13	93.5	5.3	1174	US-08-040-751-3	Sequence 2, Appli
14	93.5	5.3	1174	US-08-291-368-2	Sequence 2, Appli
15	93.5	5.3	1174	US-08-962-190-2	Sequence 2, Appli
16	93.5	5.3	1174	PCT-US95-10310-2	Sequence 2, Appli
17	93.5	5.3	1174	5164180-4	Patent No. 5164180
18	91.5	5.2	1159	US-08-956-242-13	Sequence 13, Appli
19	91.5	5.2	1159	US-09-351-215-13	Sequence 13, Appli
20	90	5.1	888	US-08-956-242-4	Sequence 4, Appli
21	90	5.1	888	US-09-351-215-4	Sequence 4, Appli
22	87.5	5.0	624	US-08-845-566-1	Sequence 1, Appli
23	85.5	4.9	509	US-08-879-561-3	Sequence 2, Appli
24	85	4.8	1176	US-08-257-899-2	Sequence 2, Appli
25	83.5	4.8	624	US-08-879-561-9	Sequence 9, Appli
26	83.5	4.8	731	US-09-115-446-2	Sequence 2, Appli
27	82	4.7	1367	US-08-249-687C-2	Sequence 2, Appli
28	82	4.7	1367	US-08-625-819-2	Sequence 2, Appli

29	82	4.7	1367	US-08-746-559A-2	Sequence 2, Appli
30	81.5	4.6	626	US-08-956-242-2	Sequence 2, Appli
31	81.5	4.6	626	US-09-351-215-2	Sequence 2, Appli
32	81	4.6	477	US-08-191-338A-2	Sequence 2, Appli
33	80	4.6	312	US-09-014-969-17	Sequence 17, Appli
34	79	4.5	328	US-08-118-270-42	Sequence 42, Appli
35	79	4.5	328	PCT-US93-08528-42	Sequence 42, Appli
36	79	4.5	532	US-08-288-405A-10	Sequence 10, Appli
37	79	4.5	584	US-08-928-652-13	Sequence 13, Appli
38	78	4.4	309	US-08-605-284B-6	Sequence 6, Appli
39	78	4.4	369	US-08-416-756A-2	Sequence 2, Appli
40	78	4.4	384	US-07-937-609-17	Sequence 17, Appli
41	78	4.4	384	PCT-US92-02091-2	Sequence 2, Appli
42	78	4.4	453	US-08-132-990A-6	Sequence 6, Appli
43	78	4.4	453	PCT-US92-09382-6	Sequence 6, Appli
44	78	4.4	581	US-09-135-021-80	Sequence 80, Appli
45	78	4.4	614	US-08-543-881-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-749-816-2
: Sequence 2, Application US/08749816
: Patent No. 6013470
: GENERAL INFORMATION:
: APPLICANT: Lesage, Florian
: APPLICANT: Guillemae, Eric
: APPLICANT: Fink, Michel
: APPLICANT: Duprat, Fabrice
: APPLICANT: Lazdunski, Michel
: APPLICANT: Romey, Georges
: TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
: TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
: TITLE OF INVENTION: OF DRUGS
: NUMBER OF SEQUENCES: 19
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: WEISER & ASSOCIATES
: STREET: 230 South Fifteenth Street, Suite 500
: CITY: Philadelphia
: STATE: PA
: COUNTRY: USA
: ZIP: 19102
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/749,816
: FILING DATE: 15-NOV-1996
: CLASSIFICATION: 536
: ATTORNEY/AGENT INFORMATION:
: NAME: Weiser, Gerard J.
: REGISTRATION NUMBER: 19,763
: REFERENCE/DOCKET NUMBER: 989.6351P
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 215-875-8383
: TELEFAX: 215-875-8394
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 336 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-749-816-2

Query Match 100.0%; Score 1753; DB 3; Length 336;
Best Local Similarity 100.0%; Pred. No. 1,2e-161;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MLOSLAGSSCVLVERHRSAMCFGLVILGYLLYLVEGAVVSSVELPYEDLLROELRLK 60
DB 1 MLOSLAGSSCVLVERHRSAMCFGLVILGYLLYLVEGAVVSSVELPYEDLLROELRLK 60
OY 61 RRFLEHEHCLSQOLEQOLFGRVLEASNTGVSVLSNAGNMWMDFTSALFEASTVSTGY 120
DB 61 RRFLEHEHCLSQOLEQOLFGRVLEASNTGVSVLSNAGNMWMDFTSALFEASTVSTGY 120
OY 121 GHTVPLSDGKAFCTIYVIGIPFLFLFLTAIVORITVHVTRRPVLYPHIRMGSKOYVA 180
DB 121 GHTVPLSDGKAFCTIYVIGIPFLFLFLTAIVORITVHVTRRPVLYPHIRMGSKOYVA 180
OY 181 IVHAVLGFVTVSCFFETIPAAVFSVLEDDMNFLESFYCFISLSTIGLDYVPGEGYNOK 240
DB 181 IVHAVLGFVTVSCFFETIPAAVFSVLEDDMNFLESFYCFISLSTIGLDYVPGEGYNOK 240
OY 241 FRELYKIGITCYLLGLTAMLVLETPELHELKFRKMFYVKKDKDQVHIIEHDOLS 300
DB 241 FRELYKIGITCYLLGLTAMLVLETPELHELKFRKMFYVKKDKDQVHIIEHDOLS 300
OY 301 FSSITDOAGMKEDOKONEPFAVATQSSACVDPANH 336
DB 301 FSSITDOAGMKEDOKONEPFAVATQSSACVDPANH 336

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RESULT 2
US-08-332-312-2
; Sequence 2, Application US/08332312
; Patent No. 5559026
; GENERAL INFORMATION:
; APPLICANT: Price, Laura A.
; TITLE OF INVENTION: Functional Expression of a Drosophila
; TITLE OF INVENTION: Functional Expression of a Drosophila
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: American Cyanamid Company
; STREET: One Cyanamid Plaza
; CITY: Wayne
; STATE: New Jersey
; COUNTRY: US
; ZIP: 07470-8426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,312
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Harrington, James J.
; REGISTRATION NUMBER: P-38,711
; REFERENCE/DOCKET NUMBER: 32,421
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-831-3246
; TELEFAX: 201-831-3305
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-332-312-2

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Query Match 13.6%; Score 239; DB 1; Length 618;
Best Local Similarity 26.1%; Pred. No. 5e-15;
Matches 74; Conservative 49; Mismatches 112; Indels 28; Gaps 8;
OY 26 LVGLYLVFVGAVVSSVELPYEDLLROELRK---LKRRLFHEHCLSQOLEQOLFGR 81

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DB 9 LLIIFYISYLMGAAIYYHIEHGEKISRQKQIAINELLEELGDKNTTQDELQR 68
OY 82 VLEASNTGVSVLSNAGSN-NMMDFTSALFPASTVLTSTTGGHVPVPLSDGKAFCTIYSVI 140
DB 69 ISDCDKRPVTLIPYTDTPYTWITVYHAFVFAVYCSVGVGNISPTTFACRMIMIAYSVI 128
OY 141 GIPFT-ILF-----LTAVVRITVHVTRRPVLYPHIRMGFSKOYVAIVHAVLGF 189
DB 129 GIPVNGILFAGLGEYFGRTFEATYRKYKMSIDMHVYPPQGL---ITTVIALIPG- 184
OY 190 VTVSCFFETIPAAVFSVLEDDMNFLESFYCFISLSTIGLDYVPGEGYNOK-----FREL 244
DB 185 --LALFLVLPVGVHLLRELGLSSISLXYSVTTTIGFDYVPTFGANQPKFEGGMFV 242
OY 245 YKIGITCYLLGLTAMLVLETE 267
DB 243 YQIFVIVWFIFSL-GYLVMIIMTF 264

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RESULT 3
US-08-749-816-4
; Sequence 4, Application US/08749816
; Patent No. 6013470
; GENERAL INFORMATION:
; APPLICANT: Lesage, Florian
; APPLICANT: Guillemare, Eric
; APPLICANT: Fink, Michel
; APPLICANT: Duprat, Fabrice
; APPLICANT: Lazdunki, Michel
; APPLICANT: Romey, Georges
; TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
; TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESS: WEISER & ASSOCIATES
; STREET: 230 South Fifteenth Street, Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/749,816
; FILING DATE: 15-NOV-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 989,6351P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-749-816-4

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Query Match 12.9%; Score 226.5; DB 3; Length 383;
Best Local Similarity 26.2%; Pred. No. 4.3e-14;
Matches 89; Conservative 56; Mismatches 134; Indels 61; Gaps 12;

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0Y 26 LVLEVLIVYVAGVAFVSVELPYEDLLR-----OEKLRLRLE-----HECJLSEOO 74
Db 44 LVLSCVYVALLGAGVLFSTIEHP-ELKRRKALREFODLQOQMGNTSIEIEN---SEOS 99
0Y 75 LEOLFGRVL-----EASNVGVSVLSNAGSNWMDFTSALFVASTVLSYTGHTVPLS 127
Db 100 IEITTKLILMEDAHNHNAAFEYFELNHELPRKDMWTFSSALV-TTITTVIPVIGYILFPIS 159
0Y 128 DGGKAFCTIIVSIGIPFTLFLAVQORITVHTVRPVLXFIWGSKQVAVIHAVLL 187
Db 160 AYGRMCLIAVALLGIPFL-----YVMDPGKPAQVLTRW-FGDNNMIAIPAIF- 208
0Y 188 GFVAVSCEFFIPAAVFSVLEDDMN--FLESFFCFGLSLSTIGDGYVPGEGYNOQRRELY 245
Db 209 -----VCLLFAAPLWGVGLFSTSNITFLDSVYFSLISIFIGFGDLTP-----DMN 255
0Y 246 KIGITCVLLGLIMLVL-----EFLCELHELKFF-----RKMFYKKDKDEQYH 292
Db 256 VIHNVFLPAGSVILVTTLIIVAEMIDRNVHNGRHVAKKELAGRKFPOLASLNNKQGL 315
0Y 293 IIEHDOJFSSTIDQAGMKEDOKONEPFAVATOSSACVD 332
Db 316 VSGVGQLHALARFGMLVGREVDKIQEDGJILARSPOVMDG 355

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      RESULT      4  

US-08-332-312-4  

Sequence 4, Application US/08332312  

Patent No. 5539026  

GENERAL INFORMATION:  

APPLICANT: Price, Laura A.  

APPLICANT: Pausch, Mark H.  

TITLE OF INVENTION: Functional Expression of a Drosophila  

TITLE OF INVENTION: Melanogaster Putative Potassium Channel in Yeast  

NUMBER OF SEQUENCES: 4  

CORRESPONDENCE ADDRESS:  

ADDRESSEE: American Cyanamid Company  

STREET: One Cyanamid Plaza  

CITY: Wayne  

STATE: New Jersey  

COUNTRY: US  

ZIP: 07470-8426  

COMPUTER READABLE FORM:  

MEDIUM TYPE: Floppy disk  

COMPUTER: IBM PC compatible  

OPERATING SYSTEM: PC-DOS/MS-DOS  

SOFTWARE: Patentin Release #1.0, Version #1.25  

CURRENT APPLICATION DATA:  

APPLICATION NUMBER: US/08/332,312  

FILING DATE:  

CLASSIFICATION: 435  

ATTORNEY/AGENT INFORMATION:  

NAME: Harrington, James J.  

REGISTRATION NUMBER: P-38,711  

REFERENCE/DOCKET NUMBER: 32,421  

TELECOMMUNICATION INFORMATION:  

TELEPHONE: 201-831-3246  

TELEFAX: 201-831-3305  

INFORMATION FOR SEQ ID NO: 4:  

SEQUENCE CHARACTERISTICS:  

LENGTH: 336 amino acids  

TYPE: amino acid  

TOPOLOGY: linear  

MOLECULE TYPE: protein  

US-08-332-312-4

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Db 19 VKKNAARE-TWTSSSIEFATVTTTIGYGPRVPVNTIGRWCLFSLGLPLT----- 72
Oy 152 VQRTYVATRRPVLVYHIRMG----- 174
Db 73 ----VTIADLAGKEFLEHLVWLVGNYLKLYLSRRKEREHVCBCHSHGMDNI 188
Oy 175 -SKOVNA-IYAVALLGFYTVSCFFFIIPAARVSLEDDNPLSEHYPCFISLSTGLDLY 222
Db 129 EKKRIAPALVAILIIVYAFG-----GVLMSKLE-PMSFSTSYWFIIMTVGVGEDLM 181
Oy 233 PGEYGNQKRELEYKIGTCYLLGLIAML-----VLEPFC-ELHEIKKRFEMFY 281
Db 182 PR-----KGVNVIILYITLTKFSKKKOKKIKFLGLAITTMCIDLVGVQIRIRHY 234

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01 RESULT 5
02 US-08-749-816-6
03 Sequence 6, Application US/08749816
04 Patent No. 6013470
05 GENERAL INFORMATION:
06 APPLICANT: Lesage, Florian
07 APPLICANT: Guillemaire, Eric
08 APPLICANT: Fink, Michel
09 APPLICANT: Duprat, Fabrice
10 APPLICANT: Lazdunski, Michel
11 APPLICANT: Romey, Georges
12 TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
13 TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
14 TITLE OF INVENTION: OF DRUGS
15 NUMBER OF SEQUENCES: 19
16 CORRESPONDENCE ADDRESS:
17 ADDRESSEE: WEISER & ASSOCIATES
18 STREET: 230 South Fifteenth Street, Suite 500
19 CITY: Philadelphia
20 STATE: PA
21 COUNTRY: USA
22 ZIP: 19102
23 COMPUTER READABLE FORM:
24 MEDIUM TYPE: Floppy disk
25 COMPUTER: IBM PC compatible
26 OPERATING SYSTEM: PC-DOS/MS-DOS
27 SOFTWARE: Patentin Release #1.0, Version #1.30
28 CURRENT APPLICATION DATA:
29 APPLICATION NUMBER: US/08/749,816
30 FILING DATE: 15-NOV-1996
31 CLASSIFICATION: 536
32 ATTORNEY/AGENT INFORMATION:
33 NAME: Weiser, Gerard J.
34 REGISTRATION NUMBER: 19,763
35 REFERENCE/DOCKET NUMBER: 989.6351P
36 TELECOMMUNICATION INFORMATION:
37 TELEPHONE: 215-875-8383
38 TELEFAX: 215-875-8394
39 INFORMATION FOR SEQ ID NO: 6:
40 SEQUENCE CHARACTERISTICS:
41 LENGTH: 27 amino acids
42 TYPE: amino acid
43 STRANDEDNESS:
44 TOPOLOGY: linear
45 MOLECULE TYPE: peptide
46 US-08-749-816-6
47
48 Query Match 8.4%; Score 148; DB 3; Length 27;
49 Best Local Similarity 100.0%; Pred. No. 5, 1e-08;
50 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
51
52 01 212 FLESYFCFISLTIGLDYVPGEGYN 238
53 1 FLESYFCFISLTIGLDYVPGEGYN 27

```

RESULT 6
US-08-749-816-3
Sequence 3, Application US/08749816
Patent No. 6013470
GENERAL INFORMATION:
APPLICANT: Lesage, Florian
APPLICANT: Guillemaire, Eric
APPLICANT: Fink, Michel
APPLICANT: Duprat, Fabrice
APPLICANT: Lazdunski, Michel
APPLICANT: Romey, Georges
APPLICANT: Barhault, Jacques
TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
OF DRUGS
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: WEISER & ASSOCIATES
STREET: 230 South Fifteenth Street, Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,816
FILING DATE: 15-NOV-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 989,6351P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 347 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-749-816-3

Query Match 8.3%; Score 145.5; DB 3; Length 347;
Best Local Similarity 23.5%; Pred. No. 2.5e-06;
Matches 79; Conservative 55; Mismatches 127; Indels 75; Gaps 15;
QY 31 LALYVGAVVSSVELPYEDLLRQELRLKRLFEHECLSE-----QOLEPFLGRV 82
DB 47 LVNLLGAGIFYLAE-----TONSESEINSESVSKCHNLPICKITAEKSKSLGKC 99
QY 83 LEASNGVSVLSNAGNMWMDTSALFEFASYLSTGYGHTVPLSDGCAFCITISVIGI 142
DB 100 LIMS-----SLIDG-----FGKALFEFMTLYSTVYGSLPHSTLGRYLIIFYSLMI 147
QY 143 P-----FTLLFLAVVQRTVHTRRPVLYFHIRMGFSKQV--AIVAVLL- 187
DB 148 PVFIARKEFGFELAHFLVVSNNRRLAVK--AVYKLSQNPENAEIPSNLSQHDYLIIF 204
QY 188 --GVYVSCFFFLIPRAVESLVDNMNLFESYFCFISLSTIGLDYVGEQYNQKRELY 245
DB 205 LSSLCLCISLSSSALFESSIE-NISYLSYVFGLITMELIGDIVPTN----- 253
QY 246 KGITCYLLGLIAMIYVET--FCEHLELKE-----RRMFVKKDKEDOV-----H 292
DB 254 LWFSGYCLFLISDVLNQITYFCOARVRFPHILARKILLREDDGFQLETTVSLOH 313

QY 293 I-IEHDLSFSSITDQAGMKEDQKONEPFVATOSS 327
DB 314 IPIINSQCPMSVLDC---KEEDNDEKILSSILTS 346

RESULT 7
US-08-749-816-5
Sequence 5, Application US/08749816
Patent No. 6013470
GENERAL INFORMATION:
APPLICANT: Lesage, Florian
APPLICANT: Guillemaire, Eric
APPLICANT: Fink, Michel
APPLICANT: Duprat, Fabrice
APPLICANT: Lazdunski, Michel
APPLICANT: Romey, Georges
APPLICANT: Barhault, Jacques
TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
OF DRUGS
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: WEISER & ASSOCIATES
STREET: 230 South Fifteenth Street, Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,816
FILING DATE: 15-NOV-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 989,6351P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-749-816-5

Query Match 7.9%; Score 139; DB 3; Length 27;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 104 FTSALFFASTVLSSTGTYGHTVPLSDG 130
DB 1 FTSALFFASTVLSSTGTYGHTVPLSDG 27

RESULT 8
US-08-464-340A-13
Sequence 13, Application US/08464340A
Patent No. 5710019
GENERAL INFORMATION:
APPLICANT: LI, ET AL.
TITLE OF INVENTION: Human Potassium Channel 1 and 2 Proteins
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/148,209A
FILING DATE: 05-NOV-1993
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Rowland, Berttram I
REGISTRATION NUMBER: 20,015
REFERENCE/DOCKET NUMBER: A-58491-1/BIR
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
-08-148-209A-3

Query Match 5.4%; Score 94.5; DB 1; Length 363;
Best Local Similarity 20.9%; Pred. No. 0.23;
Matches 60; Conservative 40; Mismatches 80; Indels 107; Gaps 16;

QY 17 HRSACWGFGL--VLGLVLT-VFGAVVF--SSVELPYEDLLRQELRKLRRFLERH-- 67
DB 106 YRIDMLFGPMCVFSGFELTNMFASLEFITCMQVD-RYOSVITPFLSQRRNPQASVYV 164
QY 68 -----ECLSEQQLLEOFLGRVLEASN-----GVSVLNMSGNMN 101
DB 165 PLVMGACGS--SLPFYFEDVARTIELGVNACIMAFPEPKYQMSGILMNNILG--- 219
QY 102 WDTLSALFRAST-----VLSTGYGHTVPLSDG---GKAPCIYVIGIPIF-TLIF 148
DB 220 --FIIPLIFATCYFGIRKHLTKNSGKNRITRDQVLMKMAAVLAFFIICMLPFHVLT 277
QY 149 LFAVORITVHTVRRPVLVYHIMKGSKOVAIV---HAVLLGFVTSCEFPIPAVF 203
DB 278 LDALTMGIIIN-----SCEYIAVIDLALPAILLGF-TNSC----- 312
QY 204 SVLEDDMFLSEYFCFISLSTIGLDYVPEGYNOKFRELYKIGIT 250
DB 313 -----VNPLCYCFV-----GNRFQOKLRGVSFRVPI 338

RESULT 11

-08-464-340A-4

Sequence 4, Application US/08464340A

Patent No. 5710019

GENERAL INFORMATION:

APPLICANT: LI, ET AL.

TITLE OF INVENTION: Human Potassium Channel 1 and 2 Proteins

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,

STREET: 6 BECKER FARM ROAD

CITY: ROSELAND

STATE: NEW JERSEY

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/464,340A

FILING DATE: June 5, 1995

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/08449
FILING DATE: 28 JUL 1994
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-415
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 494 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-08-464-340A-4

Query Match 5.4%; Score 94; DB 1; Length 494;
Best Local Similarity 20.9%; Pred. No. 0.38;
Matches 69; Conservative 63; Mismatches 136; Indels 62; Gaps 16;

QY 10 CV-RIVERHRSACWGFGLV--LGLVLYVFGAVVFSSVELPYEDLLRQELRKLRRFLERH-- 65
DB 167 CVMKFLERPESS--CPARVVALSEFLILV--SSVVMCDITPELOVDABGNREHPTLEN 224
QY 66 -EHECISEQQLLEOFLGRVLEASN---YGVSVLSNAGNMMDFTSAL--PFASVLTSTGY 120
DB 225 VETACIGWFTLE-YLLRLTFSSPNKRLHFLALSFNNIV-----DVIALLPYVSITLTHLG- 276
QY 121 GHTVPLSDGKAKFCIIYSVIGIFITLLFAVVOIRITVHTVRRPVLVYHIMKGSKOVA 180
DB 277 ARMELTNVOA-----VOALRIMRIARIFKLARHSSGIQTLVYALKRSFKEL--- 324
QY 181 IVAHVLGFVTSCEFPI-----PAVFSVLEDDMFLSEYFCFISLSTIGLD 230
DB 325 ---GLIMYLVAGIFVFSALGYTMEQSHPETLR-----NIGQSFMMALITMTVGYGD 375
QY 231 YVPEGYNOKFRELYKIGITCYLLGLIAMLVLETFCELHEIKRKRMFYAKKDEDO 290
DB 376 IYPR-----TLLSKNMAISFLCGVIAIAPRIHPI-----INNEVRYNKRQVLETA 423
QY 291 VHIIEHDLSFSSITDOAGMKEDOKNEP 320
DB 424 KHELELMELNSSSGGEGKTGSRSDLDNLP 453

RESULT 12

PCT-US94-08449A-4

Sequence 4, Application PC/TUS9408449A

GENERAL INFORMATION:

APPLICANT: LI, ET AL.

TITLE OF INVENTION: Potassium Channel Protein 1 and 2

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,

STREET: 6 BECKER FARM ROAD

CITY: ROSELAND

STATE: NEW JERSEY

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/08449A

FILING DATE: SUBMITTED HERewith

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 35800-105
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 494 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
T-US94-08449A-4

Query Match 5.48, Score 94; DB 4; Length 494;
Best Local Similarity 20.9%, Pred. No. 0.38;
Matches 69; Conservative 63; Mismatches 136; Indels 62; Gaps 16;

QY 10 CV-RIVEHRHSMCGFLV--LGVLIVYFGAVVSSVELPEDELLRQELRKRFLE- 65
DB 167 CVMKFLERPESS-CPARVAELSLFLILV-SSVWCMPTIPLQVLDEGNVEHPTELEN 224
QY 66 -EHECLSQOLEOFLGRVLEASN--YGVSVLSNAGNMNDFTSAL-FFASTVLTGY 120
DB 225 VETNIGIFTE-YLIRLFSSPNKHFALSPNIV-----DYALILFFYSLITFLHG- 276
QY 121 GHTVPLSGGKAFCIIVSIGIPFTLFLFVAVORITVHT3RPVLYFHIMGFSKQVVA 180
DB 277 ARMELTIVVQA-----VOALRIMRIARIFKLARHSS3LQTLTYALKSFREL-- 324
QY 181 IVHVLGFLVTVSCFFI-----PAVFSVLEDDMNLESEFYCFISLSTIGLCD 230
DB 335 ---GLIMLYLVAGIFVFSGALGYMEQSHPEFLK-----NIPQSFMAIITMTVGYGD 375
QY 231 YVPGEGYQKRELYKISITCYLLGLIAMLVLETFCELHLEKFRKMFYKKDKDEDO 290
DB 376 IYPK-----TTLSKLMAAISFLCGVIAIALPHPI-----INNFVRYNQRVLETRA 423
QY 291 VHIIEHQLSFSSTIDQAAMEKEDOKONEP 320
DB 424 KHELELMELNSSSGEGKGTGSRSDLDNLP 453

RESULT 13
US-08-040-751-3
Sequence 3, Application US/08040751
Patent No. 5407825
GENERAL INFORMATION:
APPLICANT: Payne, Jewel M
APPLICANT: Sick, August J
TITLE OF INVENTION: No. 5407825el Bacillus thuringiensis isolates
TITLE OF INVENTION: active against Lepidopteran Pests and Genes Encoding No. 54078
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID R. SALIWANCHIK
STREET: 2421 N.W. 41st STREET, SUITE A-1
CITY: GAINESVILLE
STATE: FL
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/040,751
FILING DATE: 19930329
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SALIWANCHIK, DAVID R.
REFERENCE/DOCKET NUMBER: MA39.C1.D3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1174 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Bacillus thuringiensis
STRAIN: aizawai
INDIVIDUAL ISOLATE: PS81A2
IMMEDIATE SOURCE:
LIBRARY: Lambdagem - 11 (tm) Library of August Sick
CLONE: 81A2
US-08-040-751-3

Query Match 5.3%, Score 93.5; DB 1; Length 1174;
Best Local Similarity 25.1%, Pred. No. 1.3;
Matches 46; Conservative 24; Mismatches 46; Indels 67; Gaps 9;

QY 24 GFLVGYLLIVYFGAVVSSVELPEDELLRQELRKRFLEHCLSEOLECF----- 78
DB 51 GDFILG-LFDVWGAIGSQMDI-----FLEQIELLIGRIEEFARNQA 93
QY 79 LGRVLEASNYGVSVLSNAGNMNDFT-----SALFFASTVLTGYGH 122
DB 94 ISRLQGLSNL-YRIYTNMFKNWEVDPNPALEENRIQFNDKNSALTYAIPFSVOGY-- 150
QY 123 TVPLSDGGKAFCIIVSIGIPFTLFLFVAVORITVHT-RRPVLYFHIMGFSKQVVAI 181
DB 151 EITPL-----LSVYQDANILHSLVDVSVFGQRMGFD--VAT 185
QY 182 VHA 184
DB 186 INS 188

RESULT 14
US-08-291-368-2
Sequence 2, Application US/08291368
Patent No. 5686069
GENERAL INFORMATION:
APPLICANT: Payne, Jewel M.
APPLICANT: Sick, August J.
TITLE OF INVENTION: No. 5686069el Bacillus thuringiensis isolates
TITLE OF INVENTION: Active Against Lepidopteran Pests
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: SalIWanchik & SalIWanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: FL
COUNTRY: US
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

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